

ABSTRACT

A method for removing effects of gain and phase mismatch in amplification branches of a linear amplification using nonlinear components (LINC) system. The method includes receiving an input signal, calculating a relative phase and gain difference in the amplification branches, and generating phasing components. The input signal is then controllably separated into a plurality of branch signals of different but constant envelope. The mismatch between branches may cause each branch signal to have a different envelope. The phases of the branch signals are then appropriately adjusted in a certain amount of corresponding phasing components, such that when the branch signals are recombined, the combined signal substantially replicates the input signal.